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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/635862
				Filing Date	2003-08-05
				First Named Inventor	DELUCA, Michael J. et al.
				Art Unit	2622
				Examiner Name	Nicholas G. Giles
Sheet	1	of	11	Attorney Docket No: FN-101-CIP-US	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	001	US-4577219	03-18-1986	KLIE; Jurgen et al.	
	002	US-4646134	02-24-1987	KOMATSU; Kousuke et al.	
	003	US-4777620	10-11-1988	SHIMONI; Yair et al.	
	004	US-4881067	11-14-1989	WATANABE; Osamu et al.	
	005	US-4978989	12-18-1990	NAKANO; Toshifumi et al.	
	006	US-5164831	11-17-1992	KUCHTA; Daniel W. et al.	
	007	US-5164833	11-17-1992	AOKI; Tetsushi	
	008	US-5249053	09-28-1993	JAIN; Jaswant R.	
	009	US-5274457	12-28-1993	KOBAYASHI; Toshiharu et al.	
	010	US-5301026	04-05-1994	LEE; Young-man	
	011	US-5303049	04-12-1994	EJIMA; Satoshi et al.	
	012	US-5335072	08-02-1994	TANAKA; Yoshito et al.	
	013	US-5384601	01-24-1995	YAMASHITA; Haruo et al.	
	014	US-5400113	03-21-1995	SOSA; Toshio et al.	
	015	US-5432866	07-11-1995	SAKAMOTO; Shizuo	
	016	US-5455606	10-03-1995	KEELING; Michael R. et al.	
	017	US-5568187	10-22-1996	OKINO; Tadashi	
	018	US-5671013	09-23-1997	NAKAO; Toshio	
	019	US-5694926	12-09-1997	DEVRIES; Douglas F. et al.	
	020	US-5719639	02-17-1998	IMAMURA; Atsushi	
	021	US-5719951	02-17-1998	SHACKLETON; Mark et al.	

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Sheet	2	of	11	Attorney Docket No: FN-101-CIP-US	

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	022	US-5724456	03-03-1998	BOYACK; James R. et al.	
	023	US-5734425	03-31-1998	TAKIZAWA; Yoshinori et al.	
	024	US-5748784	05-05-1998	SUGIYAMA; Kenji	
	025	US-5805720	09-08-1998	SUENAGA; Nobumasa et al.	
	026	US-5805727	09-08-1998	NAKANO; Hiroki	
	027	US-5815749	09-29-1998	TSUKAHARA; Daiki et al.	
	028	US-5818975	10-06-1998	GOODWIN; Robert M. et al.	
	029	US-5850470	12-15-1998	KUNG; Sun-yuan et al.	
	030	US-5892837	04-06-1999	LUO; Jiebo et al.	
	031	US-5949904	09-07-1999	DELP; Helen Roxlo	
	032	US-5991456	11-23-1999	RAHMAN; Zia-ur et al.	
	033	US-5999160	12-07-1999	KITAMURA; Tetsuya et al.	
	034	US-6011547	01-04-2000	SHIOTA; Kazuo et al.	
	035	US-6028611	02-22-2000	ANDERSON; Eric C. et al.	
	036	US-6035074	03-07-2000	FUJIMOTO; Hiroyuki et al.	
	037	US-6036072	03-14-2000	LEE; Yun-chung	
	038	US-6101271	08-08-2000	YAMASHITA; Haruo et al.	
	039	US-6104839	08-15-2000	COK; David Roy et al.	
	040	US-6118485	09-12-2000	HINOUE; Sadahiko et al.	
	041	US-6192149	02-20-2001	ESCHBACH; Reiner et al.	
	042	US-6195127	02-27-2001	SUGIMOTO; Kazuhiko	

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Sheet	3	of	11	Attorney Docket No: FN-101-CIP-US	

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	043	US-6201571	03-13-2001	OTA; Takayuki	
	044	US-6233364	05-15-2001	KRAINIOUK; Alexei et al.	
	045	US-6249315	06-19-2001	HOLM; Jack M.	
	046	US-6266054	07-24-2001	LAWTON; Daryl T. et al.	
	047	US-6268939	07-31-2001	KLASSEN; R. Victor et al.	
	048	US-6285410	09-04-2001	MARNI; Sandrine	
	049	US-6295378	09-25-2001	KITAKADO; Jun et al.	
	050	US-6298166	10-02-2001	RATNAKAR; Viresh et al.	
	051	US-6381345	04-30-2002	SWAIN; Cassandra Turner	
	052	US-6393148	05-21-2002	BHASKAR; Ranjit	
	053	US-6421468	07-16-2002	RATNAKAR; Viresh et al.	
	054	US-6426775	07-30-2002	KUROKAWA; Shinji	
	055	US-6438264	08-20-2002	GALLAGHER; Andrew et al.	
	056	US-6459436	10-01-2002	KUMADA; Shuichi et al.	
	057	US-6473199	10-29-2002	GILMAN; Paul B. et al.	
	058	US-6614471	09-02-2003	OTT; Cynthia D.	
	059	US-6621867	09-16-2003	SAZZAD; Sharif et al.	
	060	US-6628833	09-30-2003	HORIE; Daisaku	
	061	US-6714665	03-30-2004	HANNA; Keith James et al.	
	062	US-6786655	09-07-2004	COOK; Stacy S. et al.	
	063	US-6798913	09-28-2004	TORIYAMA; Hideyuki	

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Sheet	4	of	11	Attorney Docket No: FN-101-CIP-US	

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	064	US-6859565	02-22-2005	BARON; John M.	
	065	US-7024051	04-04-2006	MILLER; Michael E. et al.	
	066	US-7027662	04-11-2006	BARON; John M.	
	067	US-7035462	04-25-2006	WHITE; Timothy J. et al.	
	068	US-7133070	11-07-2006	WHEELER; Richard B. et al.	
	069	US-7155058	12-26-2006	GAUBATZ; Matthew D. et al.	
	070	US-7224850	05-29-2007	ZHANG; Lei et al.	
	071	US-7269292	09-11-2007	STEINBERG; Eran	
	072	US-7295233	11-13-2007	STEINBERG; Eran et al.	
	073	US-7310443	12-18-2007	KRIS; Mark et al.	
	074	US-7315631	01-01-2008	CORCORAN; Peter et al.	
	075	US-7336821	02-26-2008	CIUC; Mihai et al.	
	076	US-7362368	04-22-2008	STEINBERG; Eran et al.	
	077	US-7369712	05-06-2008	STEINBERG; Eran et al.	
	078	US-7403643	07-22-2008	IANCULESCU; Mihai et al.	
	079	US-7436998	10-14-2008	STEINBERG; Eran et al.	
	080	US-7454040	11-18-2008	LUO; Huitao et al.	
	081	US-7515740	04-07-2009	CORCORAN; Peter et al.	
	082	US-2001031142A1	10-18-2001	WHITESIDE, George D.	
	083	US-2001052937A1	12-20-2001	SUZUKI, Toshihiko	
	084	US-2002019859A1	02-14-2002	WATANABE, Kouji	

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	085	US-2002051571A1	05-02-2002	JACKWAY, Paul et al.	
	086	US-2002090133A1	07-11-2002	KIM, Sang-kyun et al.	
	087	US-2002105662A1	08-08-2002	PATTON, David L. et al.	
	088	US-2002114513A1	08-22-2002	HIRAO, Koichiro	
	089	US-2002126893A1	09-12-2002	HELD, Andreas et al.	
	090	US-2003025808A1	02-06-2003	PARULSKI, Kenneth A. et al.	
	091	US-2003044176A1	03-06-2003	SAITOH, Noboru	
	092	US-2003052991A1	03-20-2003	STAVELY, Donald J. et al.	
	093	US-2003058343A1	03-27-2003	KATAYAMA, Takeshi	
	094	US-2003137597A1	07-24-2003	SAKAMOTO, Koichi et al.	
	095	US-2003194143A1	10-16-2003	IIDA, Seiji	
	096	US-2004047491A1	03-11-2004	RYDBECK, Bo	
	097	US-2004057623A1	03-25-2004	SCHUHRKE, Thomas et al.	
	098	US-2004120598A1	06-24-2004	FENG, Xiao-fan	
	099	US-2004239779A1	12-02-2004	WASHISU, Koichi	
	100	US-2005068452A1	03-31-2005	STEINBERG; Eran et al.	
	101	US-2005074179A1	04-07-2005	WILENSKY; Gregg D.	
	102	US-2005147278A1	07-07-2005	RUI; Yong et al.	
	103	US-2005207649A1	09-22-2005	ENOMOTO; Jun et al.	
	104	US-2005238230A1	10-27-2005	YOSHIDA; Ikuko	
	105	US-2005276481A1	12-15-2005	ENOMOTO; Jun	

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	106	US-2006017825A1	01-26-2006	THAKUR; Khageshwar	
	107	US-2006038916A1	02-23-2006	KNOEDGEN; Horst et al.	
	108	US-2006140455A1	06-29-2006	COSTACHE; Gabriel et al.	
	109	US-2006203108A1	09-14-2006	STEINBERG; Eran et al.	
	110	US-2006204052A1	09-14-2006	YOKOUCHI; Kouji	
	111	US-2007110305A1	05-17-2007	CORCORAN; Peter et al.	
	112	US-2007116380A1	05-24-2007	CIUC; Mihai et al.	
	113	US-2007201724A1	08-30-2007	STEINBERG; Eran et al.	
	114	US-2008013798A1	01-17-2008	IONITA; Mircea et al.	
	115	US-2008112599A1	05-15-2008	NANU; Florin et al.	
	116	US-2008144965A1	06-19-2008	STEINBERG; Eran et al.	
	117	US-2008186389A1	08-07-2008	DELUCA; Michael J. et al.	
	118	US-2008211937A1	09-04-2008	STEINBERG; Eran et al.	
	119	US-2008232711A1	09-25-2008	PRILUTSKY; Yury et al.	
	120	US-2008240555A1	10-02-2008	NANU; Florin et al.	

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Sheet	7	of	11	Attorney Docket No: FN-101-CIP-US	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	121	EP-1229486A1	08-07-2002	GRETAG IMAGING TRADING AG		<input type="checkbox"/>
	122	EP-1429290A2	06-16-2004	FUJI PHOTO FILM CO. LTD.		<input type="checkbox"/>
	123	EP-1528509A2	05-04-2005	NORITSU KOKI CO., LTD.		<input type="checkbox"/>
	124	EP-911759A3	06-14-2000	HEWLETT-PACKARD COMPANY		<input type="checkbox"/>
	125	EP-979487B1	03-15-2006	SARNOFF CORPORATION		<input type="checkbox"/>
	126	GB-841609A	07-20-1960	RALPH AUSTIN RUSCA		<input type="checkbox"/>
	127	JP-2002-247596A2	08-30-2002	MINOLTA CO LTD		<input type="checkbox"/>
	128	JP-9214839A2	08-15-1997	FUJITSU LTD		<input type="checkbox"/>
	129	WO-0192614A1	12-06-2001	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION		<input type="checkbox"/>
	130	WO-04034696A1	04-22-2004	WALLACE, DIANE		<input type="checkbox"/>
	131	WO-05087994A1	09-22-2005	MASCHINENFABRIK RIETER AG		<input type="checkbox"/>
	132	WO-06011635A1	02-02-2006	CANON KABUSHIKI KAISHA		<input type="checkbox"/>
	133	WO-2007057063A1	05-24-2007	FOTONATION VISION LTD		<input type="checkbox"/>
	134	WO-2007057064A1	05-24-2007	FOTONATION VISION LTD		<input type="checkbox"/>
	135	WO-2007093199A2	08-23-2007	FOTONATION VISION LTD		<input type="checkbox"/>
	136	WO-2007093199A3	08-23-2007	FOTONATION VISION LTD		<input type="checkbox"/>
	137	WO-2007095553A2	08-23-2007	FOTONATION VISION LTD		<input type="checkbox"/>

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				Application Number	10/635862
				Filing Date	2003-08-05
				First Named Inventor	DELUCA, Michael J. et al.
				Art Unit	2622
				Examiner Name	Nicholas G. Giles
Sheet	8	of	11	Attorney Docket No: FN-101-CIP-US	

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	138	WO-2007095553A3	08-23-2007	FOTONATION VISION LTD		<input type="checkbox"/>
	139	WO-2007142621A1	12-13-2007	FOTONATION VISION LTD		<input type="checkbox"/>
	140	WO-2008023280A2	02-28-2008	FOTONATION VISION LTD		<input type="checkbox"/>
	141	WO-2008109644A2	09-12-2008	FOTONATION VISION LTD		<input type="checkbox"/>
	142	WO-2008109644A3	09-12-2008	FOTONATION VISION LTD		<input type="checkbox"/>
	143	WO-9802844A1	01-22-1998	SARNOFF CORPORATION		<input type="checkbox"/>
	144	WO-9933684A2	07-08-1999	GENTEX CORPORATION		<input type="checkbox"/>

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	145	COMBIER, Nathalie et al., "Removal of Defects on Flash Radiographic Images by Fuzzy Combination, Conference: Machine Vision Applications in Industrial Inspection III, <a href="http://rlinks2.dialog.com/NASApp/ChannelWEB/DialogProServlet?ChName=engineering">http://rlinks2.dialog.com/NASApp/ChannelWEB/DialogProServlet?ChName=engineering</a> ", Proceedings of SPIE - The International Society for Optical Engineering, Society of Photo-Optical Instrumentation, 1995, pp. 301-312.		
	146	CORCORAN, P. et al., "Automated In-Camera Detection of Flash-Eye Defects", IEEE Transactions on Consumer Electronics, 2005, pp. 11-17, Vol. 51 - Issue 1.		
	147	CUCCHIARA, R. et al., "Detection of Luminosity Profiles of Elongated Shapes", International Conference on Image Processing, 1996, pp. 635-638, Vol. 3.		
	148	EPO Communication pursuant to Article 94(3) EPC, for European Patent Application No. 05 792 584.4, paper dated May 13, 2008, 8 pages.		
	149	HAN, T. et al., "Detection and Correction of abnormal Pixels In Hyperion Images", IEEE Intl Symposium on Geoscience and Remote Sensing, 2002, pp. 1327-1330, Vol. 3.		
	150	IIVARINEN, J. et al., "Content-Based Retrieval of Defect Images,		

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		http://www.cs.tut.fi/~about.avis/digger/Publications/acivs02.pdf", Proceedings of Advanced Concepts for Intelligent Vision, Laboratory of Computer Info. Science, 2002.		
	151	ITO, M., "An Automated System for LSI Fine Pattern Inspection Based on Comparison of Sem Images and Cad Data", IEEE International Conference on Robotics and Automation, 1995, pp. 544-549, Vol. 1.		
	152	JIN, B. et al., "Modeling and Analysis of Soft-Test/Repair for CCD-Based Digital X-Ray Systems", Instrumentation and Measurement, IEEE Transactions, 2003, pp 1713-1721, Vol. 52 - Issue 6.		
	153	PCT International Preliminary Report on Patentability (IPRP) for PCT Application PCT/EP2005/011010, dated Jan. 23, 2007, 18 pages. cited by other.		
	154	PCT International Preliminary Report on Patentability for PCT Application No. PCT/EP2005/005907, dated November 15, 2006, 8 pages.		
	155	PCT International Preliminary Report on Patentability for PCT Application PCT/EP2004/008706, dated February 6, 2006, 7 pages.		
	156	PCT Notification Concerning Transmittal of Copy of International Preliminary Report on Patentability, for PCT Application No PCT/US2007/062090, dated August 28, 2008, 6 pages.		
	157	PCT Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (PCT/EP2006/008342), dated December 28, 2006.		
	158	PCT Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration for PCT Application No. PCT/US07/62090 issued March 10, 2008, 10 pages		
	159	PCT Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration for PCT/EP/2005/05907, dated August 1, 2005, 12 pages.		
	160	PCT Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration", for PCT Application No. PCT/EP2006/008358, December 5, 2006, 14 pages		
	161	PCT Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration, for PCT Application No. PCT/US2008/055964, paper dated July 30, 2008, 8 Pages.		

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	162	PCT Notification of Transmittal of the International Search Report and Written Opinion of the International Searching Authority for PCT Application Number PCT/EP2005/001171, (11 pages).		
	163	PLOTNIKOV, Yuri et al., "Advanced Image Processing for Defect Visualization in Infrared Thermography, <a href="http://citeseer.ist.psu.edu/plotnikov98advanced.html">http://citeseer.ist.psu.edu/plotnikov98advanced.html</a> ", NASA Langley Research Center, M.S. Posted: ACM Portal, 1998.		
	164	PLOTNIKOV, Yuri et al., Winfree, "Visualization of Subsurface Defects in Composites Using a Focal Plane Array Infrared Camera , <a href="http://citeseer.ist.psu.edu/357066.html">http://citeseer.ist.psu.edu/357066.html</a> ", NASA Langley Research Center, 1999.		
	165	SMOLKA, B. et al., "Towards Automatic Redeye Effect Removal, XP004416063", Pattern Recognition Letters, 2003, pp. 1767-1785, Vol. 24 - Issue 11, North-Holland Publ.		
	166	SORIANO, M. et al., "Making Saturated Facial Images Useful Again, XP002325961, ISSN: 0277-786X", Proceedings of The Spie, 1999, pp. 113-121, Vol. 3826.		
	167	TAN, Yap-peng et al., "Robust Sequential Approach for the Detection of Defective Pixels in an Image Sensor, <a href="http://ieeexplore.ieee.org/search/freesrchabstract.jsp?arnumber=758382&amp;disnumber=16342&amp;punumber=6110&amp;dk2dockey=758382&amp;ieeecnfsandquery=%28%28%28%28images+and+defects+and+correction%29%29%29%29+%3Cin%3E">http://ieeexplore.ieee.org/search/freesrchabstract.jsp?arnumber=758382&amp;disnumber=16342&amp;punumber=6110&amp;dk2dockey=758382&amp;ieeecnfsandquery=%28%28%28%28images+and+defects+and+correction%29%29%29%29+%3Cin%3E</a> ", IEEE Intl Conf on Acoustics, Speech, & Signal Proc, 1999, pp. 2239-2242, Vol. 4.		
	168	TOET, A., "Multiscale Color Image Enhancement, Posted online: 200208-06 18:09:24.0 <a href="http://ieeexplore.ieee.org/search/freesrchabstract.jsp?arnumber=146865&amp;disnumber=3917&amp;punumber=1197&amp;dk2dockey=146865&amp;ieeecnfsandquery=%28%28images+and+defects+and+luminance%29%29+%3Cin%3E+metadata&amp;pos=1">http://ieeexplore.ieee.org/search/freesrchabstract.jsp?arnumber=146865&amp;disnumber=3917&amp;punumber=1197&amp;dk2dockey=146865&amp;ieeecnfsandquery=%28%28images+and+defects+and+luminance%29%29+%3Cin%3E+metadata&amp;pos=1</a> ", International Conference on Image Processing and its Applications, 1992, pp. 583 - 585.		
	169	United Kingdom Search Report dated May 22, 2007, issued in Application No.GB 0701957.3.		
	170	WILLAMOWSKI, J. et al., "Probabilistic Automatic Red Eye Detection and Correction", The 18th International Conference on Pattern Recognition (ICPR'06), 2006, pp. 762-765, Vol. 3, IEEE Computer Society.		

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				Examiner Name	Nicholas G. Giles
Sheet	11	of	11	Attorney Docket No: FN-101-CIP-US	

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.

- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

- ☒ None

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Andrew V. Smith/	Date (YYYY-MM-DD)	2009-08-17
Name/Print	Andrew V. Smith	Registration Number	43132

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